

**GENETIC VACCINE AGAINST HUMAN IMMUNODEFICIENCY VIRUS**

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**ABSTRACT**

Recombinant adenovirus and methods of administration to a host are provided for eliciting immune response of the host to human immunodeficiency virus (HIV). The recombinant adenovirus is capable of  
10 expressing multiple wild type or mutant HIV antigens such as HIV envelope proteins without the cleavage site or the cytosolic domain, structural proteins such as Gag and its proteolytical fragments in a natural, secreted or membrane-bound form, and regulatory proteins such as Tat, Rev and Nef. Immuno-stimulators such as cytokines can also be expressed by the  
15 recombinant adenovirus to further enhance the immunogenicity of the HIV antigens.

11/11/2006 10:00:00 AM